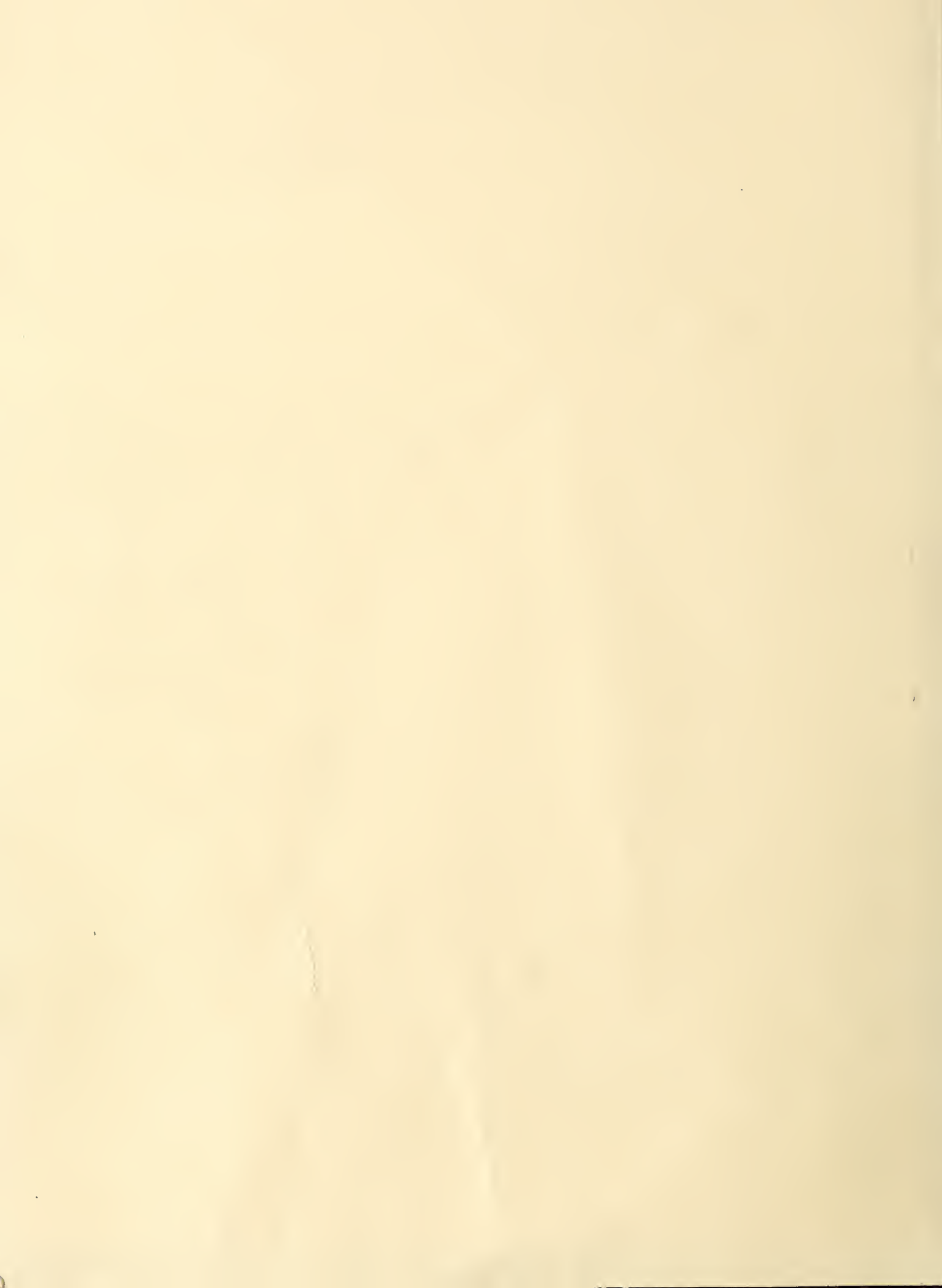


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United States
Department of
Agriculture

Soil
Conservation
Service

Spokane,
Washington



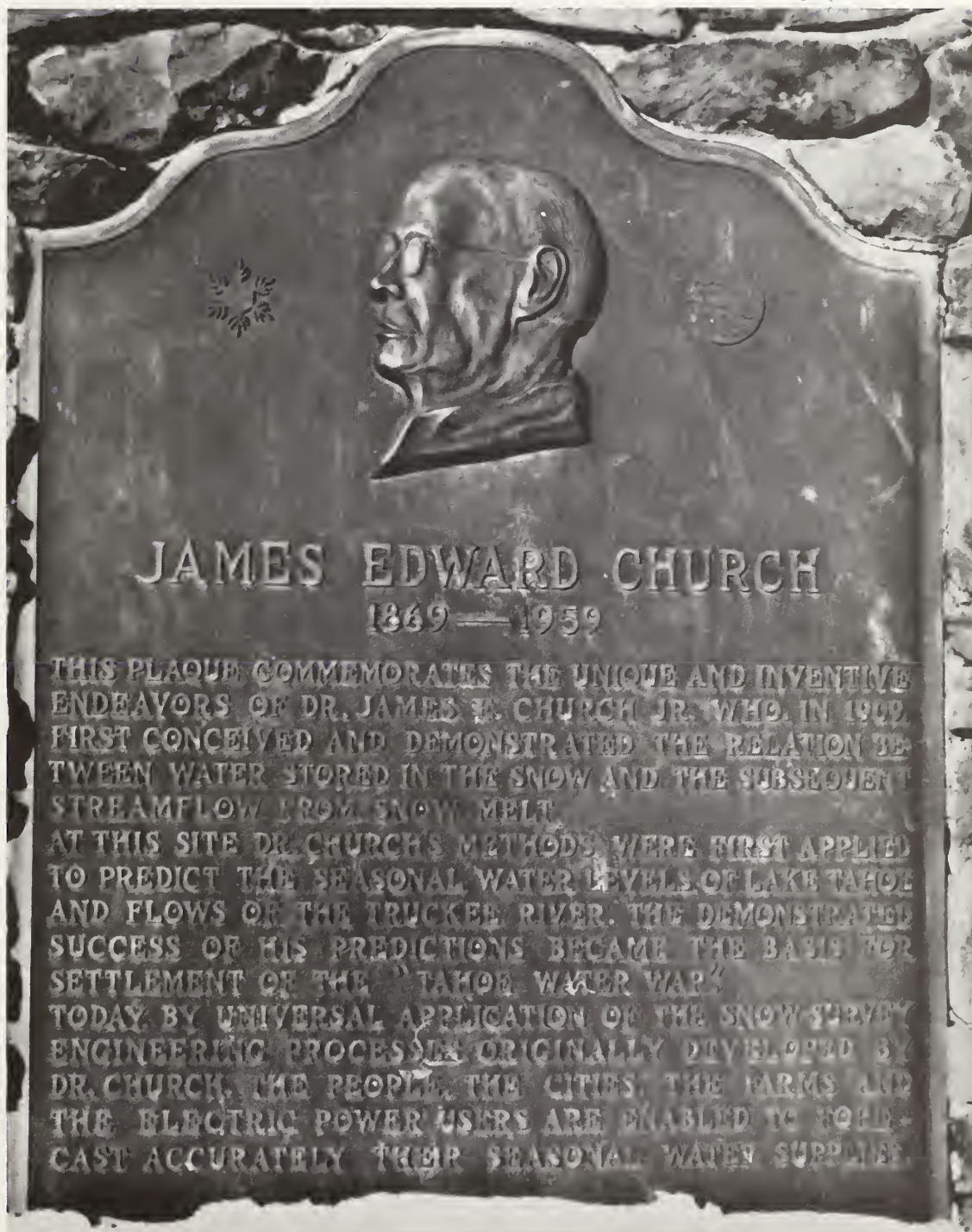
Washington Water Supply Outlook

MAY 1, 1989

SOIL CONSERVATION SERVICE
NATIONAL HEADQUARTERS
WASHINGTON, D.C. 20250
SERIALS BRANCH

JUL 19 1989

COPY



Foreword

How Forecasts Are Made

Most of the annual streamflow in the Western United States originates as snowfall that has accumulated high in the mountains during winter and early spring. As the snowpack accumulates, hydrologists estimate the runoff that will occur when it melts. Predictions are based on careful measurements of snow water equivalent at selected index points. Precipitation, temperature, soil moisture and antecedent streamflow data are combined with snowpack data to prepare runoff forecasts. Streamflow forecasts are coordinated by Soil Conservation Service and National Weather Service hydrologists. This report presents a comprehensive picture of water supply outlook conditions for areas dependent upon surface runoff. It includes selected streamflow forecasts, summarized snowpack and precipitation data, reservoir storage data, and narratives describing current conditions.

Snowpack data are obtained by using a combination of manual and automated measurement methods. Manual readings of snow depth and water equivalent are taken at locations called snow courses on a monthly or semi-monthly schedule during the winter. In addition, snow water equivalent, precipitation and temperature are monitored on a daily basis and transmitted via radio telemetry to central data collection facilities. Both monthly and daily data are used to project snowmelt runoff.

An error is associated with each forecast, and this error decreases as the season progresses and more data becomes available. To express the range of error that can be expected, "most probable" forecasts are issued along with a range representing a "reasonable minimum" and a "reasonable maximum". Actual streamflow can be expected to fall within this range in eight out of ten years. Additionally two specific scenarios are provided based on the assumption that subsequent precipitation will be "wet", above average, or "dry", below average.

For More Information

Copies of Monthly Water Supply Outlook Reports and other reports may be obtained from the states listed below. An annual snow survey data summary is published by the Soil Conservation Service for each of the western states. Historical snow survey data may be obtained at those same offices.

STATE	ADDRESS
Alaska	201 East 9th Ave., Suite 300, Anchorage, AK 99501-3687
Arizona	201 East Indianola Ave., Suite 200, Phoenix, AZ 85012
Colorado	2490 West 26th Ave., Building A, 3rd floor, Denver, CO 80211
Idaho	3244 Elder Street, Room 124, Boise, ID 83705
Montana	10 East Babcock, Room 443, Federal Building, Bozeman, MT 59715
Nevada	1201 Terminal Way, Room 219, Reno, NV 89502
New Mexico	517 Gold Ave. S.W., Room 3301, Albuquerque, NM 87102-3157
Oregon	1220 Southwest 3rd Ave., Room 1640, Portland, OR 97204
Utah	4402 Federal Building, 125 South State Street, Salt Lake City, UT 84147
Washington	W. 920 Riverside, Room 360, Spokane, WA 99201-1080
Wyoming	Federal Building, 100 "B" Street, Room 3124, Casper, WY 82601

In addition to state reports, a Water Supply Outlook for the Western United States is published by the Soil Conservation Service and National Weather Service monthly, January through May. Reports may be obtained from the Soil Conservation Service, West National Technical Center, 511 Northwest Broadway, Room 248, Portland, OR 97209-3489.

Water supply reports published by other agencies:

California — Snow Survey Branch, California Department of Water Resources, P.O. Box 388, Sacramento, CA 95802; British Columbia — The Ministry of Environment, Water Investigations Branch, Parliament Buildings, Victoria, British Columbia, V8V 1X5; Yukon Territory — Department of Indian and Northern Affairs, Northern Operations Branch, 200 Range Road, Whitehorse, Yukon Territory, Y1A3V1; Alberta, Environment Technical Services Division, 9820 106th St., Edmonton, Alberta T5K 2J6.

Washington Water Supply Outlook

and

Federal — State — Private Cooperative Snow Surveys

Issued by

Wilson Scaling
Chief
Soil Conservation Service
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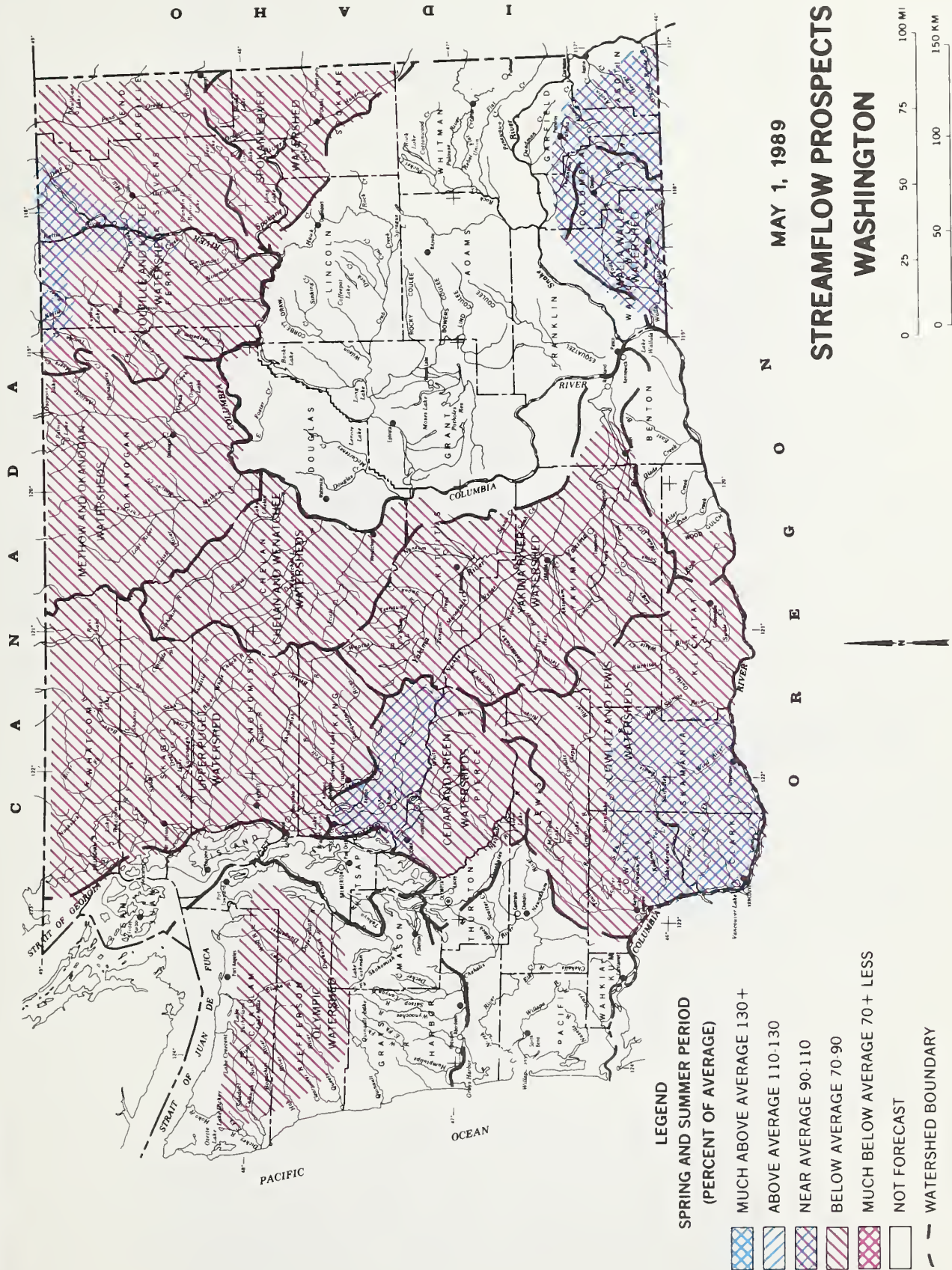
Prepared by

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Spokane, Washington 99201

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STREAMFLOW PROSPECTS WASHINGTON

MAY 1, 1989

SOURCE: Data compiled by SCS
Field Personnel

GENERAL OUTLOOK

SUMMARY:

*** NOTE: PLEASE READ PAGE 25 ABOUT 1990 W S O R ****
RESERVOIR STORAGE IMPROVED AT MAJOR IRRIGATION PROJECTS THROUGHOUT THE STATE, WITH THE RESERVOIRS IN THE YAKIMA BASIN 107% OF NORMAL. MAY 1 FORECASTS FOR 1989 RUNOFF VARY FROM 100% ON THE LEWIS RIVER TO 76% ON THE YAKIMA. APRIL STREAMFLOWS WERE ABOVE NORMAL AND VARIED FROM 101% ON THE KETTLE RIVER TO 176% ON THE YAKIMA RIVER. PRECIPITATION WAS BELOW NORMAL IN WESTERN WASHINGTON, BUT ABOVE AVERAGE IN EASTERN WASHINGTON. WARM WEATHER COVERED WASHINGTON DURING THE MONTH CAUSING SNOWPACK TO DECLINE OVER THE STATE AND VARY FROM 105% IN THE LEWIS TO 66% IN THE OLYMPIC BASIN. TEMPERATURES WERE ABOVE NORMAL DURING APRIL AND VARIED FROM SIX DEGREES ABOVE IN THE OKANOGAN AND LEWIS BASINS TO TWO DEGREES ABOVE IN THE COLVILLE BASIN.

NOTE: THE TERMS "NORMAL" AND "AVERAGE" AS USED IN THIS PUBLICATION, ARE THE SAME.

SNOWPACK:

Snowpack averages decreased in most areas of Washington during April with two of the 36 SNOTEL sites bare of snow. Peak water content at most SNOTEL sites occurred on April 6. The Cowlitz-Lewis Basin at 105% of average was the best. Other basins along west slopes of the Cascade Mountains include the Skagit with 81% and the White-Green Basin 93%, down from 98%. The eastern slopes of the Cascade Mountains are lower, with the Yakima Basin at 76% of normal. Maximum snow cover is at the Cayuse Pass snow course with 171 inches of depth and 84.0 inches of water content on the ground. This site normally would have 85.1 inches of water content.

PRECIPITATION:

SNOTEL sites in Washington showed the high elevation year-to-date precipitation values to be 86% of average, down from 95% last month. Precipitation was near normal over most of Washington for April with only the Walla Walla, Lewis-Cowlitz, Spokane and the Olympic coming in below average. The Okanogan-Methow at 131%, and Wenatchee at 222%, were the highest basins.

RESERVOIRS:

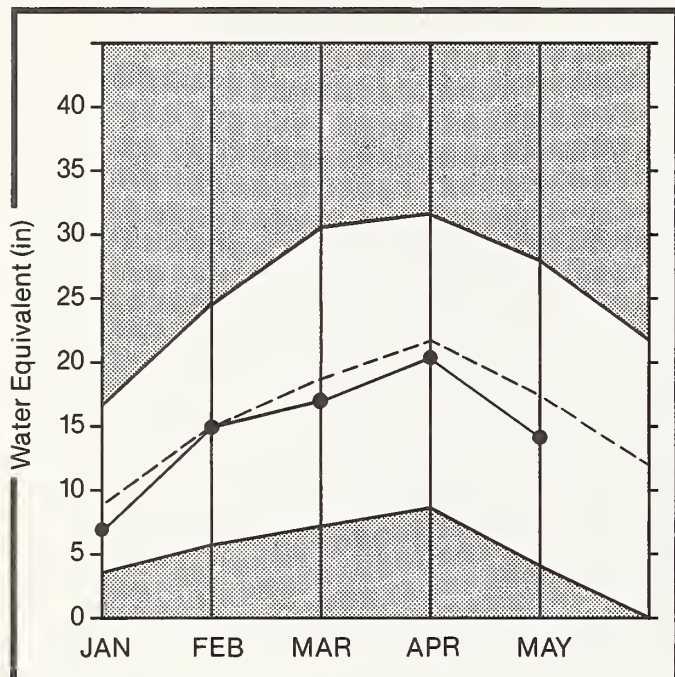
Spring weather and precipitation in the form of rain improved the reservoir outlook throughout the state. May 1 reservoir storage in the Yakima Basin was 854,100 acre feet, 107% of average, up from 605,600 acre feet, 82% of average. Other major reservoir storages include Roosevelt at 124% of normal, up from 10% last month. Banks Lake is at 111% and the Okanogan reservoirs contained 101% of May 1 average. The power reservoirs contain the following: Coeur d'Alene Lake, 391,200 acre feet or 123% of normal, Chelan Lake, 255,000 acre feet at 57%, up from 200,600 acre feet last month, and Ross Lake, 645,900 acre feet, 100% of average.

STREAMFLOW:

May 1 streamflow forecasts vary from 100% in the Lewis River to 76% for the Yakima River near Parker. The reduced snowpack and early meltout have caused a reduction in most forecasts around Washington. Forecasts for some west side streams include: Cedar River, 93% down from 100% last month, Skagit River, 81% down from 83%, and the Dungeness River, 88%. Some east side streams include the Methow River, 85% and the Chelan River 84% down from 95% last month. April streamflows were near normal in most areas of Washington, with only the Walla Walla River at 78% below normal. Streamflow on the Yakima River was 176% of average and the Spokane River was 151%.

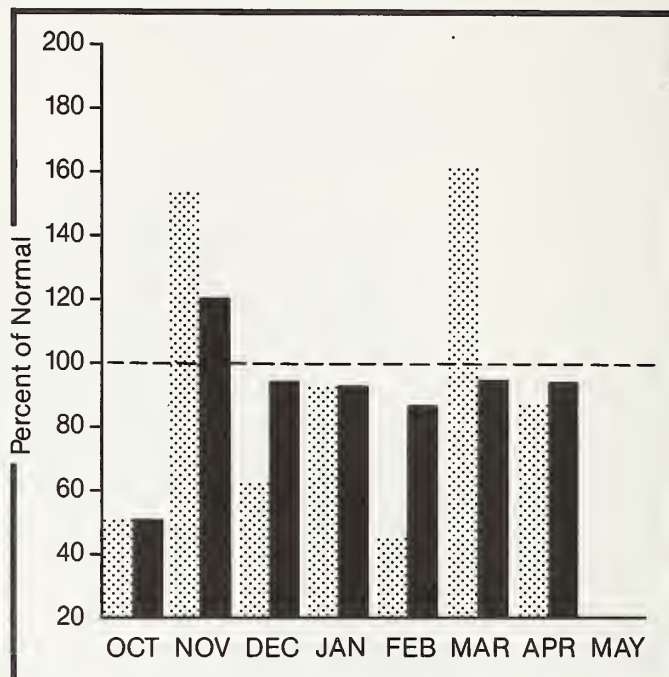
SPOKANE

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)

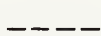


*Based on selected stations

Maximum



Average



Minimum



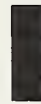
Current



Monthly precipitation



Year to date precipitation



SPOKANE RIVER BASIN

WATER SUPPLY OUTLOOK:

Forecasted runoff for the Spokane River Basin is 86% of normal for May 1. This forecast is based on a snowpack 77% of average and a water year-to-date precipitation value 93% of normal. May 1 storage in Coeur d'Alene Lake was 391,200 acre feet compared to 243,200 last month; average storage in Coeur d'Alene for May 1 is 317,200 acre feet. Streamflow on the Spokane River was 151% of normal for April. Precipitation for April was 86% of average. Maximum snow water again occurred at the Lost Lake snow course with 107 inches of snow and 47.1 inches of water content, May 1 average for this site is 60.1 inches. Temperatures averaged three degrees above normal during April.

For more information contact your local Soil Conservation Service office.

SPOKANE RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
SPOKANE nr Post Falls (2)	MAY-SEP	1700	87	1760	1660	2170	1210	1957
	MAY-JUL	1800	86	1660	1540	2050	1140	1859
SPOKANE at Long Lake	MAY-JUL	1800	86			2260	1340	2097

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
COEUR D'ALENE	291.2	391.2	248.2	317.2	Spokane River	14	153 76

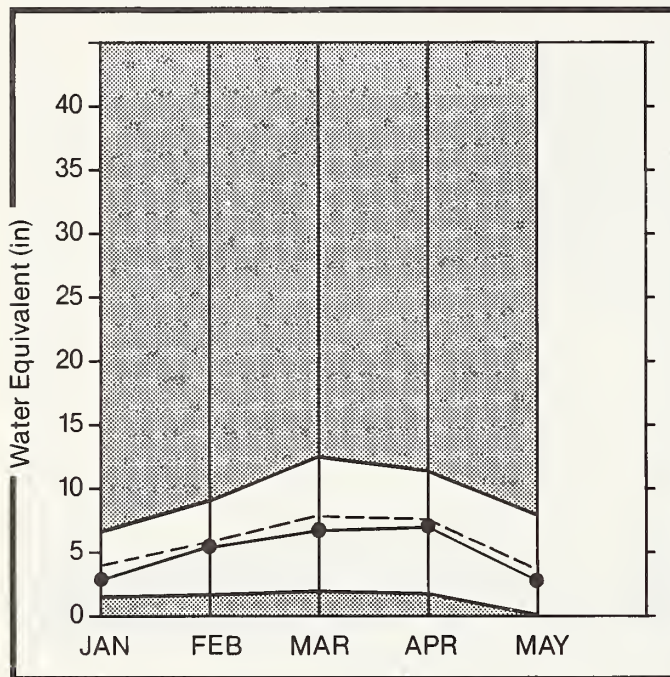
WET SUBS. and DRY SUBS. represent 150 and 50 percent subsequent precipitation events respectively.
 REAS. MAX. and REAS. MIN. forecasts are for 10% and 90% exceedance levels with the exception of (1) below.

(1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.

(2) - Corrected for upstream diversions or changes in reservoir storage.

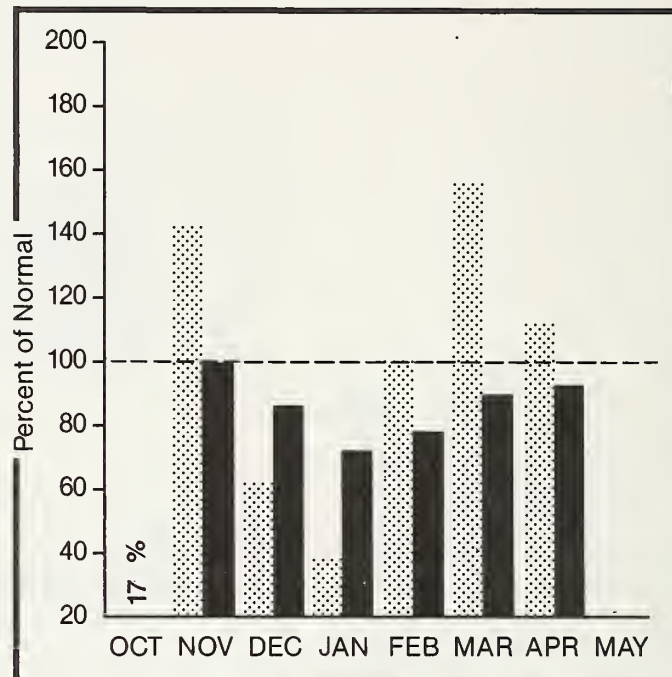
COLVILLE - PEND OREILLE

Mountain snowpack* (inches)









*Based on selected stations

Precipitation* (percent of normal)



*Based on selected stations

Maximum  Average 
Minimum  Current 

Monthly precipitation  Year to date precipitation 

COLVILLE - PEND OREILLE RIVER BASINS

WATER SUPPLY OUTLOOK:

Precipitation during April was 111% of average, bringing the water year-to-date to 92% of normal. May 1 snow cover basin-wide is 76% of average, down from 86% last month. The forecast for the Pend Oreille River streamflow is 87% of normal for the summer. Other forecasts are the Kettle River, 91% down from 93% last month and the Colville River at 89% of normal for the summer runoff period. April streamflow was 138% of normal on the Pend Oreille River and 101% on the Kettle. Snowpack at Bunchgrass Meadow snow course was 54 inches of snow with 23.9 inches of water. Temperatures averaged two degrees above normal for April.

For more information contact your local Soil Conservation Service Office.

COLVILLE - PEND OREILLE RIVER BASINS

STREAMFLOW FORECASTS

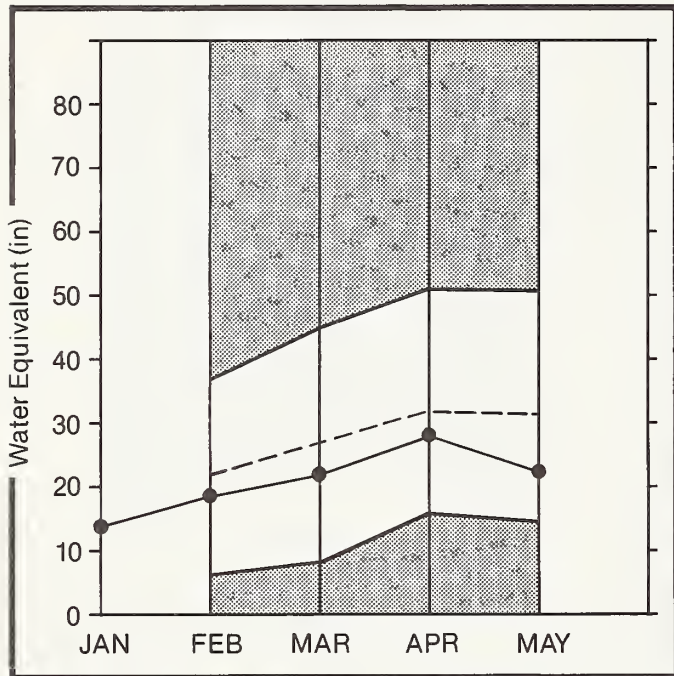
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
PEND OREILLE b1 Box Canyon (2)	MAY-SEP	11400	87			14000	8780	13100
	MAY-JUL	10300	87			12700	7930	11840
	MAY-JUN	8590	87			10600	6610	9879
CHAMOKANE CK nr Long Lake	MAY-AUG	7.8	85			11.2	4.4	9.2
	JUL-AUG	3.1	86			4.5	1.7	3.6
COLVILLE at Kettle Falls	MAY-SEP	79	89	88	70	112	46	89
	MAY-JUL	69	88	71	67	98	40	78
	MAY-JUN	60	88	63	59	85	35	68
KETTLE nr Laurier	MAY-SEP	1490	91			1790	1190	1644
	MAY-JUL	1410	91			1690	1130	1545
	MAY-JUN	1240	91			1490	995	1362
COLUMBIA at Birchbank (2)	MAY-SEP	39900	96			47000	32800	41540
	MAY-JUL	31100	95			36600	25600	32600
	MAY-JUN	21700	95			25600	17800	22800
COLUMBIA at Grand Coulee Dam (2)	MAY-SEP	56700	95			62700	50700	59780
	MAY-JUL	46600	95			51500	41700	49060
	MAY-JUN	34900	95			38600	31200	36760

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
ROOSEVELT	5232.0	1618.5	3369.2	1310.0	Colville River	0	0	0
BANKS	715.0	576.2	677.5	435.0	Pend Oreille River	10	134	79
					Kettle River	5	157	75


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 (1) - REAS. MAX. and REAS. MIN. forecasts are for 5% and 95% exceedance levels.
 (2) - Corrected for upstream diversions or changes in reservoir storage.

OKANOGAN AND METHOW

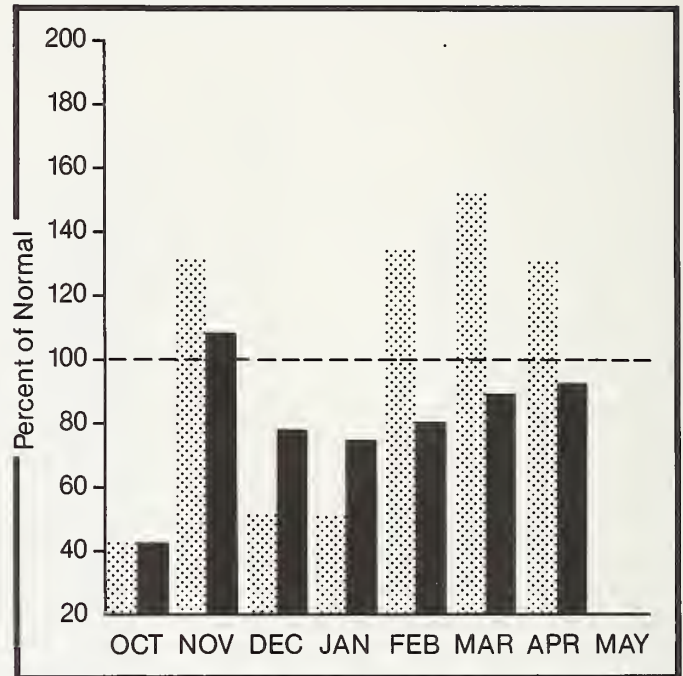
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

OKANOGAN - METHOW RIVER BASINS

WATER SUPPLY OUTLOOK:

April precipitation in the Okanogan-Methow was 131% of normal, with water year-to-date 92% of average. Snow cover, as of May 1, is 72% of average on the Okanogan-Methow Basin. This is based upon measurements made at 29 snow courses and SNOTEL sites. Temperatures were six degrees above normal for the month. Maximum snow water occurred at the Harts Pass SNOTEL, elevation 6500 feet, with 44.6 inches of water. Storage in the Conconully Reservoirs is 16,200 acre feet, which is 69% of capacity and 101% of May 1 average. April streamflow on the Methow River was 120% of normal and 123% on the Okanogan River. Summer runoff forecasted for the Okanogan River is 79% of normal, down from 85% last month. The Similkameen River 80%, down from 89% last month and the Methow River is 85% of normal.

For more information contact your local Soil Conservation Service office.

OKANOGAN - METHOW RIVER BASINS

STREAMFLOW FORECASTS

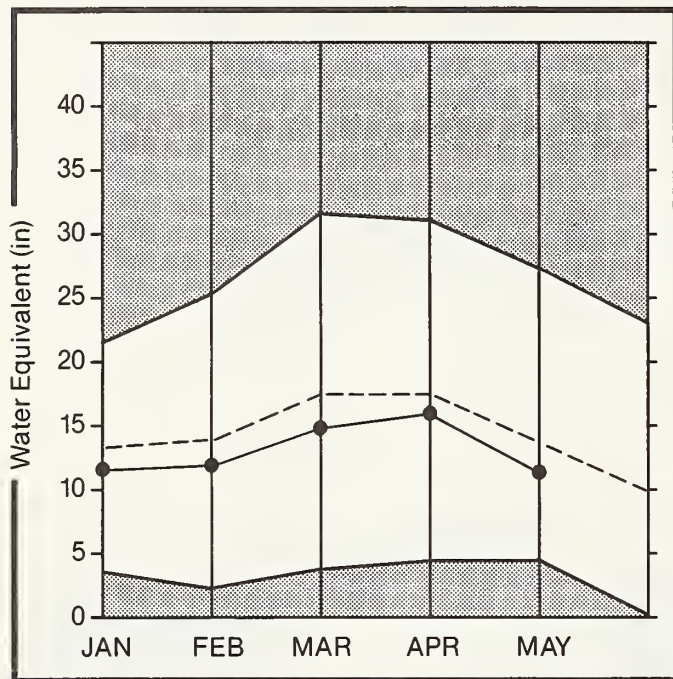
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
SIMILKAMEEN R. nr Nighthawk	MAY-SEP	1070	80	1200	950	1340	800	1345
	MAY-JUL	980	79	1100	870	1230	730	1246
	MAY-JUN	835	80	940	730	1040	625	1042
OKANOGAN R. nr Tonasket	MAY-SEP	1210	79	1350	1060	1450	965	1527
	MAY-JUL	1080	79	1220	945	1300	860	1367
	MAY-JUN	885	79	995	785	1060	705	1123
METHOW RIVER nr Pateros	MAY-SEP	765	85	865	655	980	550	898
	MAY-JUL	700	85	800	610	900	500	824
	MAY-JUN	585	85	660	505	750	420	687

RESERVOIR STORAGE		(1000AF)			WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** THIS YEAR	USEABLE STORAGE LAST YEAR	** AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR.	% OF AVERAGE
CONCONULLY LAKE (SALMON)	10.5	8.1	7.6	8.0	Okanogan River	24	125	72
CONCONULLY RESERVOIR	13.0	8.1	8.2	8.0	Methow River	3	125	69


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WENATCHEE AND CHELAN

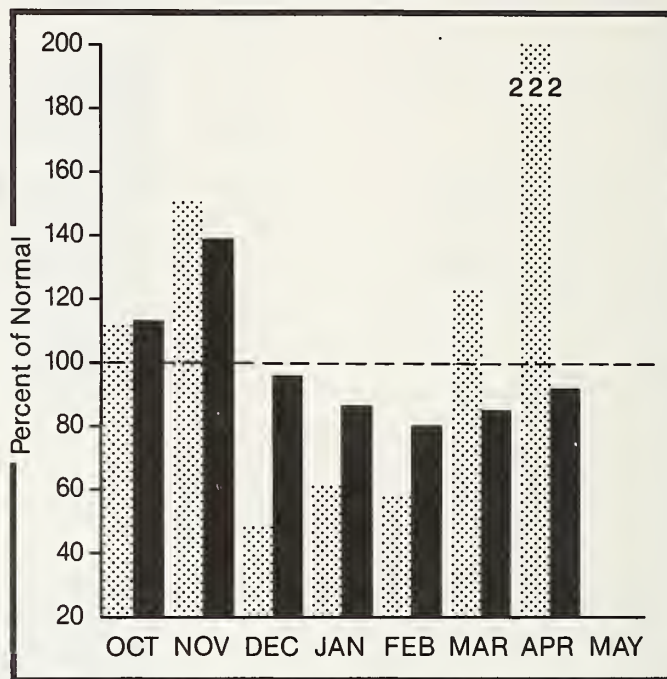
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

WENATCHEE AND CHELAN RIVER BASINS

WATER SUPPLY OUTLOOK:

Runoff for the Wenatchee River is forecast to be 87% of normal for the summer, down from 95% last month. Forecasts for the Chelan River runoff are 84%, down from 95% average. Streamflow for April on the Wenatchee River was 152% of normal and 168% on the Chelan River. Precipitation during April was 222% of normal in the basin and 92% from October 1 to May 1. Reservoir storage in Lake Chelan is 255,000 acre feet or 57% of May 1 average and 38% of capacity. Snowpack in the Wenatchee-Chelan Basin is 83% of normal, down from 93% last month. Lyman Lake SNOTEL had the most snow water with 61.7 inches on May 1.

For more information contact your local Soil Conservation Service office.

WENATCHEE - CHELAN RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
CHELAN RIVER at Chelan 1	MAY-SEP	905	84	950	840	1060	755	1075
	MAY-JUL	790	85	825	745	920	660	931
	MAY-JUN	600	85	635	570	700	500	707
STEHEKIN R. at Stehekin	MAY-SEP	700	90	725	675	780	625	775
	MAY-JUL	580	90	600	560	645	515	645
	MAY-JUN	425	90	440	405	470	380	473
ENTIAT RIVER nr Ardenvoir	MAY-SEP	191	88	210	169	220	161	217
	MAY-JUL	172	88	190	154	199	145	195
	MAY-JUN	138	89	149	127	160	116	155
WENATCHEE R. at Peshastin	MAY-SEP	1290	87	1480	1110	1780	800	1489
	MAY-JUL	1160	87	1320	985	1600	720	1327
	MAY-JUN	895	87	1030	760	1230	555	1027
STEMILT nr Wenatchee (miners in)	MAY-SEP	122	88	126	116	168	76	138
ICICLE CREEK nr Leavenworth	APR-SEP	330	89	335	320	450	210	370
	APR-JUL	300	88	305	295	410	188	340
	APR-JUN	240	89	245	235	330	151	270
COLUMBIA R. b1 Rock Island Dam 2	MAY-SEP	61500	95			68700	54300	65060
	MAY-JUL	50900	95			56800	45000	53860
	MAY-JUN	38500	95			43000	34000	40550

RESERVOIR STORAGE (1000AF)

WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
CHELAN LAKE	676.1	255.0	263.7	448.8	Chelan Lake Basin	2	115	97
					Entiat River	0	0	0
					Wenatchee River	7	94	77
					Colockum Creek	1	0	18
					Squilchuck Creek	0	0	0
					Stemilt Creek	0	0	0

WET SUBS. and DRY SUBS. represent 150 and 50 percent subsequent precipitation events respectively.

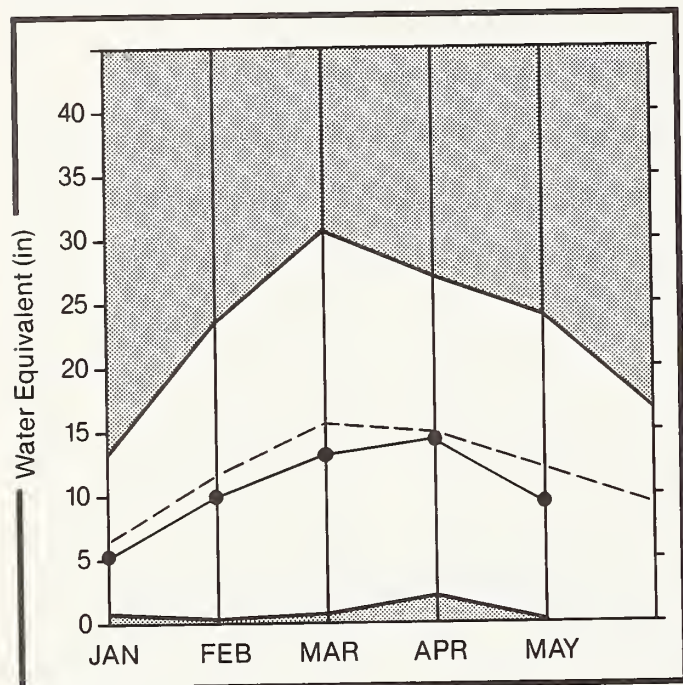
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YAKIMA

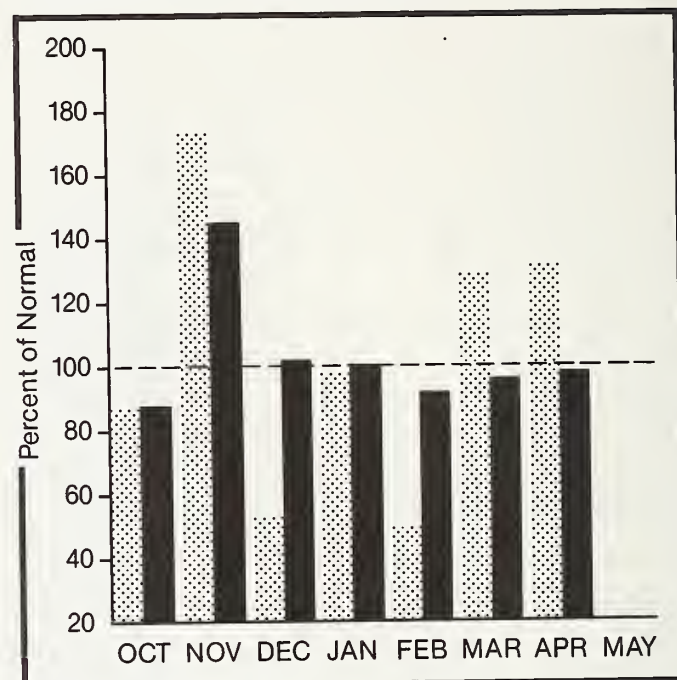
Mountain snowpack* (inches)



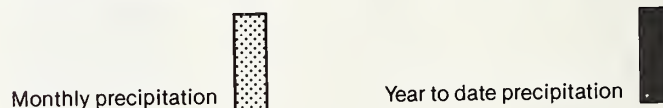
*Based on selected stations



Precipitation* (percent of normal)



*Based on selected stations



YAKIMA RIVER BASIN

WATER SUPPLY OUTLOOK:

May 1 reservoir storage for the five major reservoirs was at 854,600 acre feet or 107% of normal, up from 605,600 acre feet last month. Forecasts for the Yakima Basin runoff vary throughout the basin as follows: the Yakima River at Cle Elum, 80%, down from 88% last month, Naches River, 77%, down from 83%, the Yakima River at Parker, 76%, down from 82% and Ahtanum Creek 90%. April streamflow on the Yakima River at Cle Elum was 164% of normal. Snowpack is 76% of average in the Yakima Basin based upon 15 snow course and SNOTEL readings. April precipitation was 130% of normal and 97% for the water year-to-date. Temperatures were three degrees above the April average. Volume forecasts for the Yakima Basin are for natural flow. As such, they may differ from the U. S. Bureau of Reclamation's forecast for the total water supply available which includes adjustments for reservoir operation and irrigation return flow.

For more information contact your local Soil Conservation Service office.

YAKIMA RIVER BASIN

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
YAKIMA RIVER at Martin 1	MAY-SEP	91	83	95	87	104	78	109
	MAY-JUL	83	83	88	78	95	71	100
	MAY-JUN	71	84	74	69	81	61	85
YAKIMA RIVER at Cle Elum 2	MAY-SEP	630	80	675	575	730	530	786
	MAY-JUL	545	80	595	505	635	455	682
	MAY-JUN	455	80	495	420	530	380	570
YAKIMA RIVER nr Parker 2	MAY-SEP	1270	76	1340	1220	1590	950	1682
	MAY-JUL	1120	76	1180	1060	1400	840	1469
	MAY-JUN	950	76	1000	900	1190	715	1250
KACHESS RIVER nr Easton 1	MAY-SEP	83	77	96	70	97	69	108
	MAY-JUL	69	78	78	61	81	57	89
	MAY-JUN	59	77	67	53	69	49	77
CLE ELUM RIVER nr Roslyn 1	MAY-SEP	345	88	375	315	390	300	393
	MAY-JUL	310	88	340	280	350	270	353
	MAY-JUN	255	88	280	230	290	220	289
BUMPING RIVER nr Nile 1	MAY-SEP	105	85	114	96	122	88	123
	MAY-JUL	95	85	104	88	111	79	112
	MAY-JUN	76	84	83	71	89	63	90
AMERICAN RIVER nr Nile	MAY-SEP	91	85	96	85	104	78	107
	MAY-JUL	82	85	88	77	94	70	97
	MAY-JUN	66	84	72	63	75	57	79
TIETON RIVER at Tieton 1	MAY-SEP	175	82	184	164	210	141	213
	MAY-JUL	145	82	154	138	173	117	177
	MAY-JUN	112	82	117	105	134	90	136
NACHES RIVER nr Naches 2	MAY-SEP	560	77	605	510	655	465	726
	MAY-JUL	500	78	545	460	585	415	645
	MAY-JUN	415	78	450	385	485	345	533
AHTANUM CREEK nr Tampico 2	MAY-SEP	35	90	36	34	44	26	39
	MAY-JUL	31	89	32	30	39	23	35
	MAY-JUN	26	90	27	25	32	19.6	29

RESERVOIR STORAGE

(1000AF)

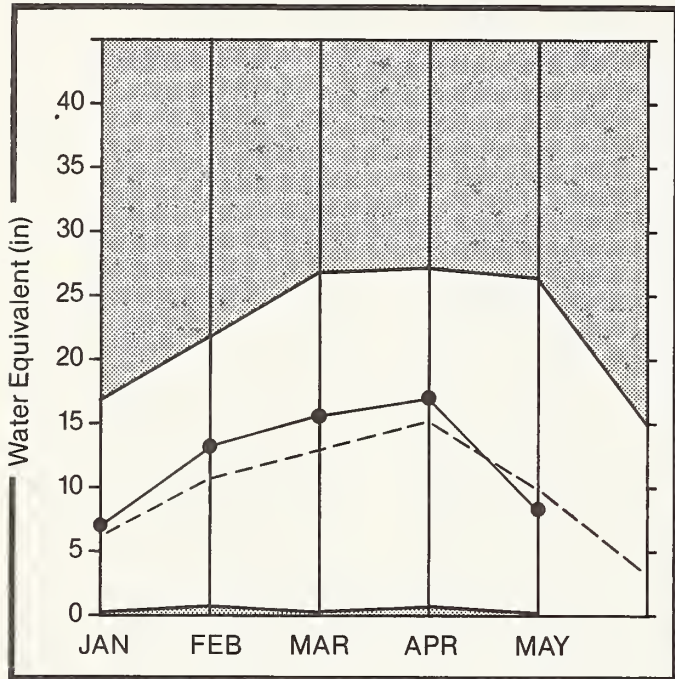
WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
KEECHELUS	157.8	148.5	106.2	119.0	Yakima River	12	104	74
KACHESS	239.0	155.6	110.9	197.0	Ahtanum Creek	2	108	107
CLE ELUM	436.9	352.1	205.3	308.0				
BUMPING LAKE	33.7	20.5	32.3	15.0				
RIMROCK	198.0	161.2	128.7	144.0				

WET SUBS. and DRY SUBS. represent 150 and 50 percent subsequent precipitation events respectively.
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 (2) - Corrected for upstream diversions or changes in reservoir storage.

WALLA WALLA

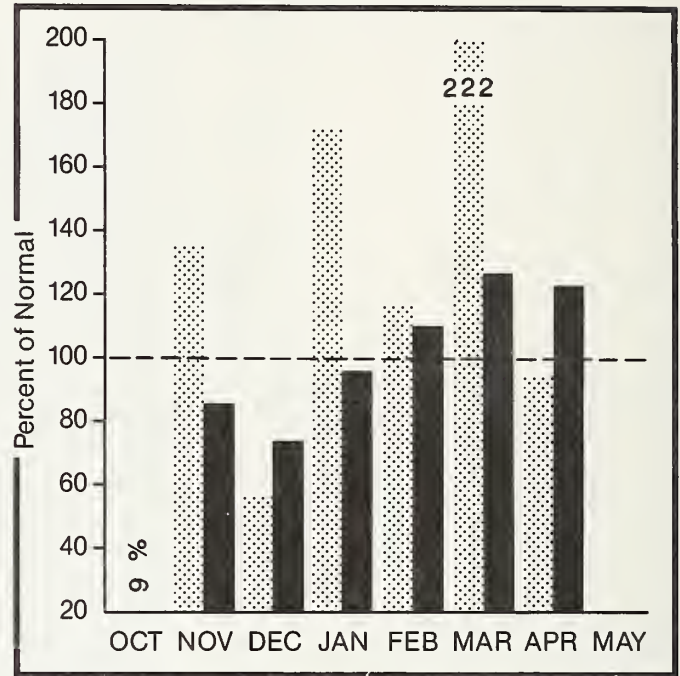
Mountain snowpack* (inches)



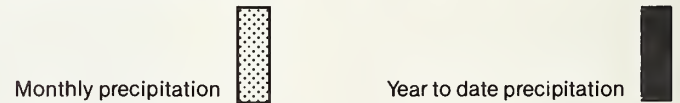
*Based on selected stations



Precipitation* (percent of normal)



*Based on selected stations



WALLA WALLA RIVER BASIN

WATER SUPPLY OUTLOOK:

May 1 snowpack in the Walla Walla River Basin is 87% of normal. April precipitation was 94% of average bringing the water year-to-date precipitation to 121% of normal. Water content at the Touchet SNOTEL site was 30.6 inches on May 1, down from 44.3 inches last month. The forecast calls for 100% of average streamflow in the Walla Walla River for the coming summer. April streamflow was 78% of normal on the Walla Walla River and 148% on the Snake River. Temperatures were three degrees above average for April.

For more information contact your local Soil Conservation Service office.

WALLA WALLA RIVER BASIN

STREAMFLOW FORECASTS

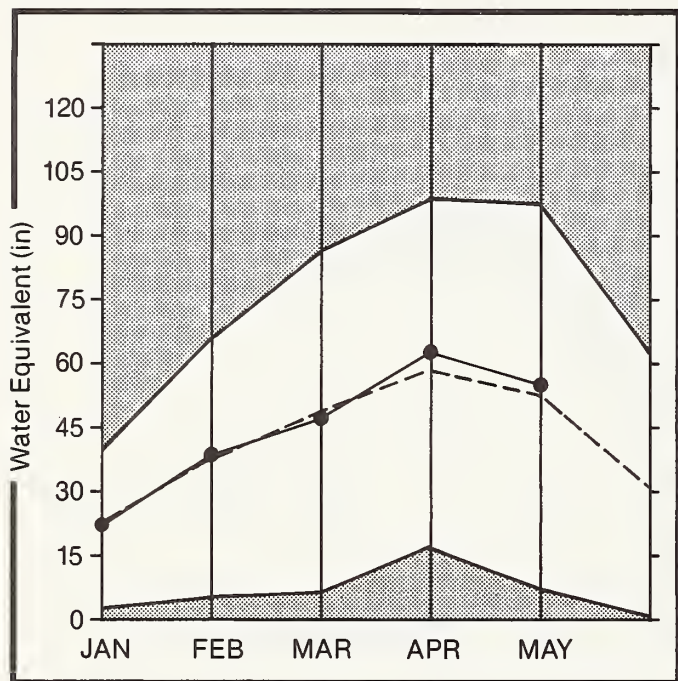
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
MILL CREEK at Walla Walla	MAY-SEP	7.6	99	7.8	7.4	10.5	4.7	7.7
	MAY-JUL	7.5	100	7.6	7.4	10.4	4.6	7.5
	MAY-JUN	7.3	100	7.4	7.2	10.1	4.5	7.3
SF WALLA WALLA nr Milton Freewater	MAY-JUL	39	100	41	37	47	31	39
COUSE CK nr Milton Freewater	MAY-JUL	1.5	94	1.7	1.3	2.0	1.0	1.6
PINE CREEK near Weston	MAY-JUL	0.8	100	1.0	0.6	1.0	0.6	0.8
COLUMBIA R. at The Dalles 2	MAY-SEP	79800	90			91300	68300	88790
	MAY-JUL	66400	90			76000	56800	74070
	MAY-JUN	51700	90			59200	44200	57430

RESERVOIR STORAGE			(1000AF)	WATERSHED SNOWPACK ANALYSIS			
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
					Mill Creek	1	0 87

WET SUBS. and DRY SUBS. represent 150 and 50 percent subsequent precipitation events respectively.
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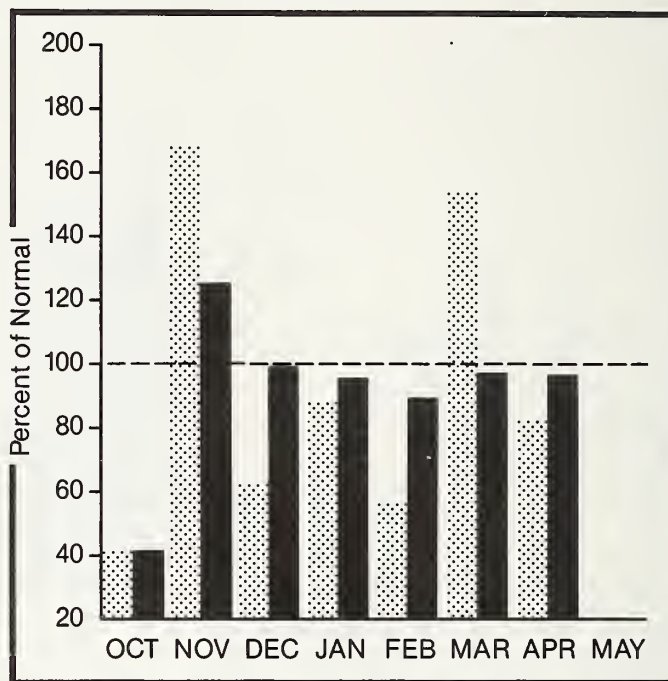
COWLITZ AND LEWIS

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)

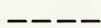


*Based on selected stations

Maximum



Average



Minimum



Current



Monthly precipitation



Year to date precipitation



COWLITZ - LEWIS RIVER BASINS

WATER SUPPLY OUTLOOK:

Summer runoff forecasts for the Lewis River are 100% and for the Cowlitz River, 88%, down from 99% last month. Streamflow during April was 144% of average on the Cowlitz River and 132% on the Lewis River. April precipitation was 81% of normal bringing the water year-to-date precipitation to 96% of average. May 1 snow cover for the Cowlitz-Lewis Basin is 105% of normal, down from 109% last month. The Cayuse Pass snow course has the maximum water content for the basin with 84.0 inches of water in 171 inches of snow. Temperatures were six degrees above normal for April.

For more information contact your local Soil Conservation Service office.

COWLITZ - LEWIS RIVER BASINS

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
LEWIS RIVER at Ariel 2	MAY-SEP	895	100	975	805	1110	680	892
	MAY-JUL	730	100	805	665	905	555	732
	MAY-JUN	605	100	660	550	750	460	606
COWLITZ R. b1 Mayfield Dam 2	MAY-SEP	1410	88	1790	1030	2200	625	1604
	MAY-JUL	1190	88	1530	855	1850	530	1350
	MAY-JUN	960	88	1220	700	1500	425	1092
COWLITZ R. at Castle Rock 2	MAY-SEP	1720	84	2250	1250	2720	715	2050
	MAY-JUL	1430	84	1870	1040	2270	595	1706
	MAY-JUN	1160	84	1520	830	1840	485	1378

RESERVOIR STORAGE

(1000AF)

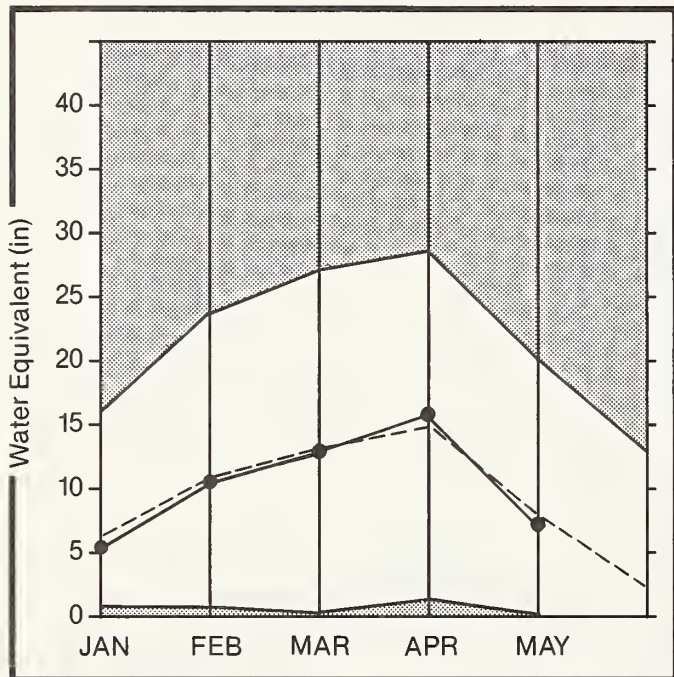
WATERSHED SNOWPACK ANALYSIS

RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF	
		THIS YEAR	LAST YEAR	AVG.			LAST YR.	AVERAGE
					Cowlitz River	1	83	57
					Lewis River	3	163	109

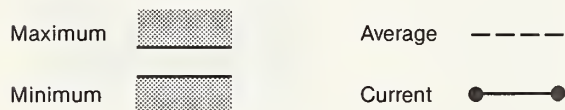
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WHITE - GREEN

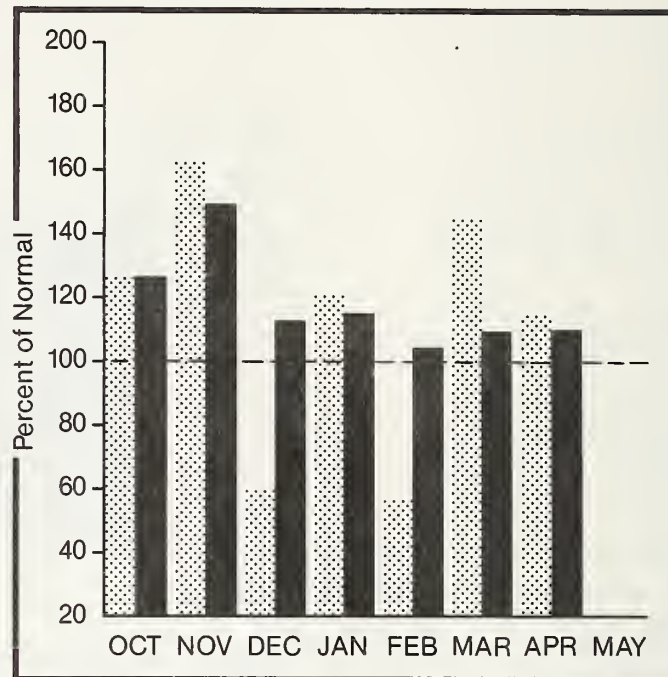
Mountain snowpack* (inches)



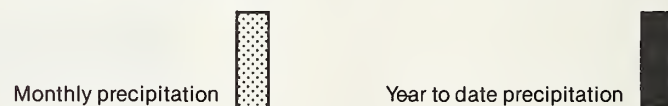
*Based on selected stations



Precipitation* (percent of normal)



*Based on selected stations



WHITE - GREEN RIVER BASINS

WATER SUPPLY OUTLOOK:

May 1 snowpack is 93% of normal for the basin, down from 105% last month. April precipitation was 114% of normal bringing the water year-to-date to 109% of average. Summer runoff is forecasted to be 88% on the Green River, down from 101% last month, and 93% of normal on the Cedar River. Water content on May 1 at the Morse Lake SNOTEL was 50.3 inches. Temperatures were five degrees above average for April.

For more information contact your local Soil Conservation Service office.

WHITE - GREEN RIVER BASINS

STREAMFLOW FORECASTS

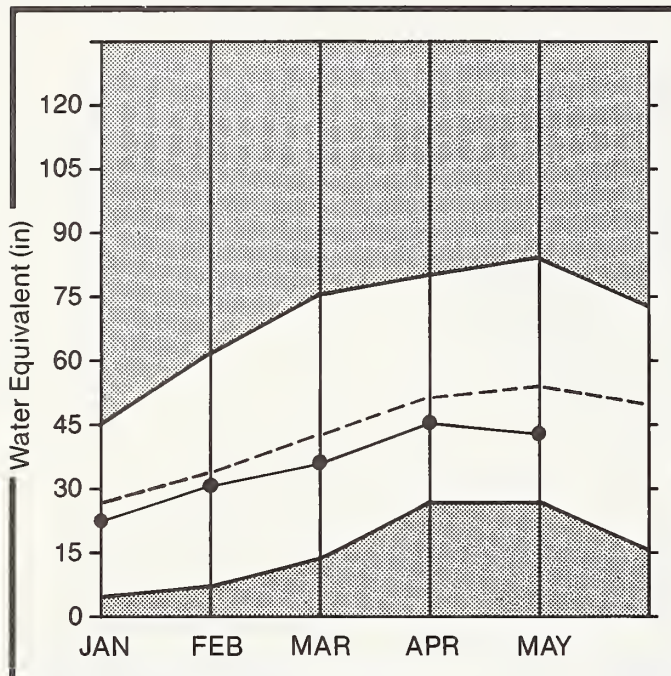
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
GREEN RIVER b1 Howard Hanson Dam 2	MAY-SEP	182	88	205	163	215	149	207
	MAY-JUL	156	88	172	138	184	128	177
	MAY-JUN	135	88	149	120	159	111	153
CEDAR RIVER nr Cedar Falls	MAY-SEP	69	93	76	62	82	56	74
	MAY-JUL	61	93	68	55	72	50	66
	MAY-JUN	50	92	55	45	59	41	54

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE **			WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
		THIS YEAR	LAST YEAR	AVG.			
					White River	2	103 93
					Green River	2	49 39
					Cedar River	0	0 0

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NORTH PUGET SOUND

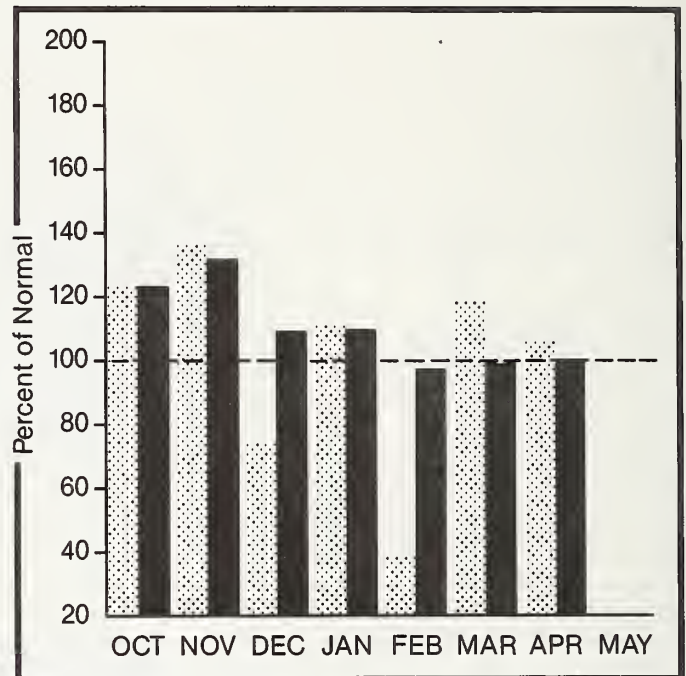
Mountain snowpack* (inches)





*Based on selected stations

Maximum  Average 
Minimum  Current 

Precipitation* (percent of normal)



*Based on selected stations

Monthly precipitation  Year to date precipitation 

NORTH PUGET SOUND RIVER BASIN

WATER SUPPLY OUTLOOK:

Precipitation values for April were 105% of average with a water year-to-date at 100% of normal. April temperatures were three degrees above average. Runoff for the Skagit River is forecasted to be 81% of normal, down from 88% last month. May 1 Reservoir storage was average, with Ross Lake at 100% of normal at 46% of capacity. Snow cover for May 1 in the basin is 81% of normal, with Brown Top snow course, at 6000 feet, having 129 inches of snow and 57 inches of water content.

For more information contact your local Soil Conservation Service office.

NORTH PUGET SOUND RIVER BASINS

STREAMFLOW FORECASTS

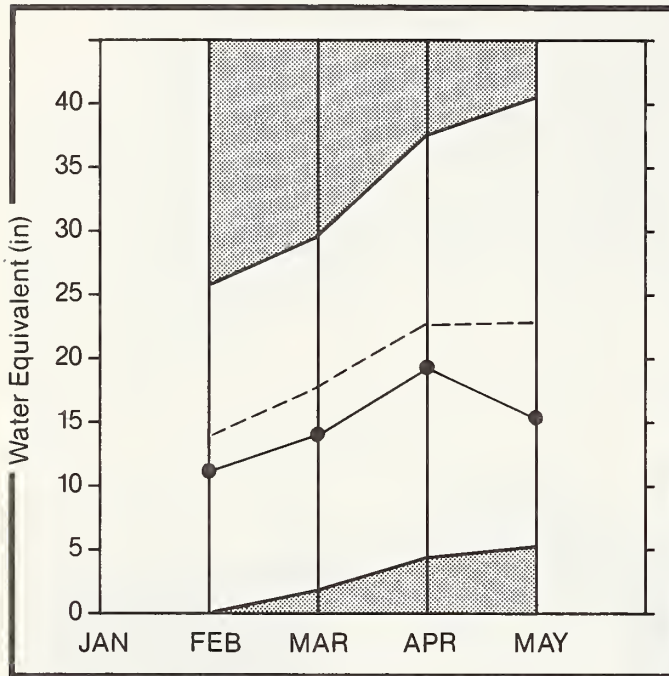
FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
SKAGIT RIVER at Newhalem 2	MAY-SEP	1660	81	1870	1470	1950	1370	2062
	MAY-AUG	1550	81	1740	1380	1820	1280	1919
	MAY-JUL	1380	82	1530	1210	1620	1140	1689
	MAY-JUN	1230	83	1350	1070	1440	1020	1485

RESERVOIR STORAGE (1000AF)					WATERSHED SNOWPACK ANALYSIS		
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR	AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE
ROSS	1404.1	645.9	671.3	644.1	Skagit River	13	98 79
DIABLO RESERVOIR	90.6	86.1	73.8	---	Baker River	9	80 70
GORGE RESERVOIR	9.8	7.7	7.4	---	Snoqualmie River	1	96 75
					Skykomish River	2	87 74

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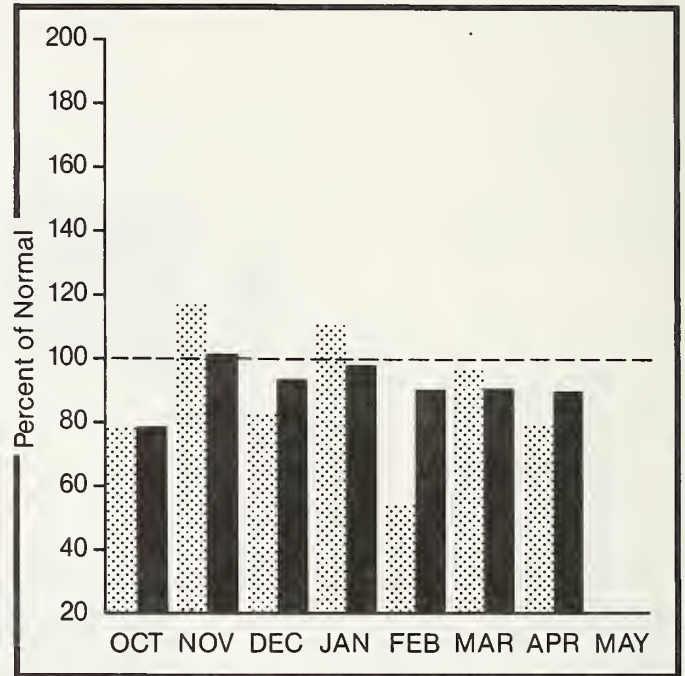
OLYMPIC

Mountain snowpack* (inches)



*Based on selected stations

Precipitation* (percent of normal)

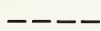


*Based on selected stations

Maximum



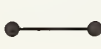
Average



Minimum



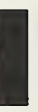
Current



Monthly precipitation



Year to date precipitation



OLYMPIC PENINSULA RIVER BASIN

WATER SUPPLY OUTLOOK:

April precipitation was 78% of average, with the Quillayute Weather Service office recording 5.83 inches of precipitation during the month. The water year-to-date precipitation accumulation is 89% of normal, down from 90% last month. The May 1 snow cover was 66% of normal in the Olympic basins. Forecasts of runoff for streamflow in the basin are for 88% of average on the Dungeness River and 84% for the Elwah River. The maximum recorded snowpack was at the Cox Valley snow course where 72 inches of snow contained 32.8 inches of water. Temperatures were four degrees above normal for April.

For more information contact your local Soil Conservation Service office.

STREAMFLOW FORECASTS

FORECAST POINT	FORECAST PERIOD	MOST PROBABLE (1000AF)	MOST PROBABLE (% AVG.)	WET SUBS. (1000AF)	DRY SUBS. (1000AF)	REAS. MAX. (1000AF)	REAS. MIN. (1000AF)	25 YR. AVG. (1000AF)
DUNGENESS RIVER nr Sequim	MAY-SEP	120	88	123	117	143	97	137
	MAY-JUL	96	88	97	93	115	77	109
	MAY-JUN	85	88	87	83	101	69	97
ELWHA RIVER nr Port Angeles	MAY-SEP	380	84	395	360	455	305	451
	MAY-JUL	305	84	320	290	365	245	363

RESERVOIR STORAGE				WATERSHED SNOWPACK ANALYSIS			
(1000AF)							
RESERVOIR	USEABLE CAPACITY	** USEABLE STORAGE ** THIS YEAR	LAST YEAR AVG.	WATERSHED	NO. COURSES AVG'D	THIS YEAR AS % OF LAST YR. AVERAGE	
				Dungeness River	1	40	33
				Morse Creek	1	73	80
				Elwha River	1	76	71

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(2) - Corrected for upstream diversions or changes in reservoir storage.

BASIN SUMMARY OF
SNOW COURSE DATA

MAY 1939

SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-85	SNOW COURSE	ELEVATION	DATE	SNOW DEPTH	WATER CONTENT	LAST YEAR	AVERAGE 1961-05
PEND OREILLE RIVER							YAKIMA RIVER						
BENTON MEADOW	2370	4/28/89	0	.0	.0	.0	ANTANUM R.S.	3100	4/27/89	0	.0	.0	.0
BENTON SPRING	4920	4/23/89	25	11.5	1.7	15.4	BIG BOULDER CREEK	3200	4/26/89	0	.0	.0	8.7
BOYER MOUNTAIN	5250	5/01/89	46	20.2	--	24.8	BLEWETT PASS #2	4270	5/01/89	3	1.3	.0	8.7
BUNCHGRASS MEADOWS	5000	4/27/89	54	23.9	11.2	29.2	BLEWETT PASS#2PILLON	4270	5/01/89	---	2.15	.0	14.2
BUNCHGRASS MOWPILLON	5000	5/01/89	---	24.9	15.3	29.1	BUMPING LAKE	3450	4/26/89	8	3.8	.0	8.7
HEART LAKE TRAIL	4800	4/29/89	41	18.6	9.6	17.4	BUMPING LAKE (NEW)	3400	4/26/89	10	5.0	.0	12.5
HOODOO BASIN	6050	4/29/89	78	39.8	42.6	53.2	CAYUSE PASS	5300	4/27/89	171	84.0	--	90.1
HOODOO CREEK	5900	4/29/89	80	36.5	35.5	49.3	CORRAL PASS PILLON	6000	5/01/89	---	36.95	37.6	38.9
LOOKOUT	5140	4/28/89	60	24.6	17.2	32.7	FISH LAKE	3370	4/26/89	40	17.6	14.6	23.8
NELSON CAN.	3100	4/27/89	20	8.3	4.6	7.2	FISH LAKE PILLON	3370	5/01/89	---	23.85	25.9	26.6
SCHWEITZER BOWL	4800	5/01/89	28	14.8	5.0	24.2	GREEN LAKE PILLON	6000	5/01/89	---	22.45	20.8	20.9
SCHWEITZER RIDGE	6200	5/01/89	82	39.8	31.9	48.3	GROUSE CAMP PILLON	5380	5/01/89	---	13.35	--	12.9
KETTLE RIVER							HORSE LAKE PILLON	5400	5/01/89	---	50.35	46.7	55.3
BARNES CREEK CAN.	5300	4/26/89	45	17.7	16.1	20.5	OLALLIE E.S. PILLON	3960	5/01/89	---	51.85	53.9	69.0
BIG WHITE MTN CAN.	5510	4/28/89	42	16.1	12.3	19.7	STAMPEDE PASS PILLON	3860	5/01/89	---	44.15	--	51.5
CARRI CAN.	4100	4/28/89	0	.0	.0	1.7	SASSE RIDGE PILLON	4200	5/01/89	---	25.05	20.7	33.5
FARROW CAN.	4000	4/20/89	19	7.2	1.4	10.4	TUNNEL AVENUE	2450	4/25/89	20	7.7	6.9	14.3
MONASHEE PASS CAN.	4500	4/26/89	29	10.5	7.8	12.8	WHITE PASS ES PILLON	4500	5/01/89	---	14.15	16.9	24.0
TRAPPING CK LOW CAN.	3050	4/28/89	0	.0	.0	.0	ANTANUM CREEK						
SPOKANE RIVER							ANTANUM R.S.	3100	4/27/89	0	.0	.0	.0
ABOVE BURKE	4100	5/01/89	---	6.8E	8.0	18.6	GREEN LAKE PILLON	6000	5/01/89	---	22.45	20.8	20.9
FOURTH OF JULY SUM	3200	5/01/89	0	.0	.0	.4	MILL CREEK						
LOOKOUT	5140	4/28/89	60	24.6	17.2	32.7	HIGH RIDGE PILLON	4980	5/01/89	---	18.25	.0	20.8
LOST LAKE	6110	4/26/89	107	47.1	39.1	60.1	TOUCHET #2 PILLON	5530	5/01/89	---	30.6	17.6	--
MOSQUITO RIDGE	5200	5/01/89	---	29.1E	17.3	36.6	LEWIS AND COWLITZ RIVERS						
SHERWIN	3200	5/01/89	14	6.9	.0	4.6	CAYUSE PASS	5300	4/27/89	171	84.0	--	90.1
SUNSET	5540	5/01/89	---	26.9E	20.3	32.8	JUNE LAKE PILLON	3200	5/01/89	---	31.75	13.0	24.8
NEWMAN LAKE							POTATO HILL PILLON	4500	5/01/89	---	15.45	18.9	27.3
QUARTZ PEAK PILLON	4700	5/01/89	---	17.6	5.2	--	SHEEP CANYON PILLON	4050	5/01/89	---	53.25	31.5	43.7
OKANOGAN RIVER							SPENCER MOW PILLON	3400	5/01/89	---	24.45	14.5	26.6
BLACKWALL PEAK CAN.	6370	4/27/89	63	29.9	34.2	36.3	SPIRIT LAKE PILLON	3100	5/01/89	---	.05	1.5	.0
BRENOA MINE CAN.	4800	4/27/89	25	9.1	.8	9.3	STRAWBERRY L. PILLON	3280	5/01/89	---	56.05	51.4	53.0
ENOBERY CAN.	6200	4/27/89	90	38.8	39.0	42.9	SURPRISE LKS PILLON	4250	5/01/89	---	44.05	--	55.6
ESPERON CK. LO CAN.	4400	4/30/89	10	3.2	.6	8.9	WHITE PASS ES PILLON	4500	5/01/89	---	14.15	16.9	24.8
ESPERON CK. MID CAN.	4690	4/30/89	16	6.4	2.4	11.9	WHITE RIVER						
ESPERON CK. UP CAN.	3410	4/30/89	24	10.2	8.6	17.5	CAYUSE PASS	5300	4/27/89	171	84.0	--	90.1
GREYBACK RES CAN.	5120	4/25/89	17	5.3	2.9	7.7	CORRAL PASS PILLON	6000	5/01/89	---	36.95	37.6	38.9
HAMILTON HILL CAN.	4890	4/27/89	24	10.5	6.8	12.6	HORSE LAKE PILLON	5400	5/01/89	---	50.35	46.7	55.3
HARTS PASS PILLON	6500	5/01/89	---	44.65	35.7	56.7	GREEN RIVER						
ISINTOK LAKE CAN.	5500	4/28/89	8	2.0	.0	6.3	COUGAR MTN. PILLON	3200	5/01/89	---	16.35	12.7	20.8
MCCULLOCH CAN.	4200	4/27/89	0	.0	.0	2.4	GRASS MOUNTAIN #2	2900	5/02/89	0	.0	--	--
MISSEZULA MTN CAN.	5090	4/27/89	10	2.9	2.2	7.0	LESTER CREEK	3100	5/02/89	44	19.0	19.2	--
MISSION CREEK CAN.	5800	4/26/89	50	18.7	17.2	21.8	LYNN LAKE	4000	5/02/89	0	.0	20.7	--
MONASHEE PASS CAN.	4500	4/26/89	29	10.5	7.8	12.0	SAWMLIT RIDGE	4700	5/02/89	64	32.0	26.0	--
MT. KODAU CAN.	5900	4/30/89	30	10.6	9.3	13.3	STAMPEDE PASS PILLON	3860	5/01/89	---	44.15	--	51.5
MUTTON CREEK #1	5700	4/26/89	22	7.5	--	10.3	TWIN CAMP	4100	5/02/89	33	15.0	22.3	--
OYALA LAKE CAN.	4400	4/28/89	6	1.2	.6	3.1	SNOQUALMIE RIVER						
POSTILL LAKE CAN.	4500	4/23/89	12	3.3	.0	6.4	KRONOMA MINE	2600	4/27/89	62	30.7	26.0	--
RUSTY CREEK	4000	4/26/89	0	.0	.0	.6	MIDDLE SULTAN	2800	4/27/89	21	11.0	5.9	--
SALMON MEADOWS	4500	4/26/89	0	.0	.0	5.2	OLNEY PASS	3250	4/27/89	41	23.6	9.4	--
SALMON MOWS PILLON	4500	5/01/89	---	.05	.0	7.4	STEVENS PASS PILLON	4070	5/01/89	---	34.15	39.3	41.3
SILVER STAR MTN CAN.	6000	4/30/89	53	24.3	22.7	29.7	STICKNEY RIDGE	3640	4/27/89	120	62.3	49.2	--
SUMMERLAND RES CAN.	4200	4/27/89	10	3.3	.0	6.3	SKAGIT RIVER						
SUNDAY SUMMIT CAN.	4300	4/28/89	0	.0	.0	.8	BEAVER CREEK TRAIL	2200	4/27/89	1	.4	.0	4.9
TROUT CREEK CAN.	4690	4/26/89	7	2.4	.3	4.8	BEAVER PASS	3680	4/20/89	51	20.4	28.0	29.3
VASEUX CREEK CAN.	4600	4/26/89	5	1.6	.0	3.0	BROWN TOP AM	6000	4/27/89	129	57.0	59.0	63.3
WHITE ROCKS MTN CAN.	6000	5/01/89	37	15.2	12.3	22.4	DEVILS PARK	5900	4/27/89	87	39.4	37.2	46.2
METHOW RIVER							FREEZEOUT CK. TRAIL	3500	4/28/89	9	3.6	6.1	7.8
HARTS PASS PILLON	6500	5/01/89	---	44.65	35.7	56.7	GRANITE CREEK	3500	4/28/89	20	6.6	8.4	12.6
MUTTON CREEK #1	5700	4/26/89	22	7.5	--	10.3	HARTS PASS PILLON	6500	5/01/89	---	44.65	35.7	56.7
RUSTY CREEK	4000	4/26/89	0	.0	.0	.6	KLESILKWA CAN.	3710	4/27/89	8	3.5	6.4	8.3
SALMON MEADOWS	4500	4/26/89	0	.0	.0	5.2	LIGHTNING LAKE CAN.	4000	4/28/89	22	7.8	11.0	11.5
SALMON MOWS PILLON	4500	5/01/89	---	.05	.0	7.4	LYMAN LAKE PILLON	5900	5/01/89	---	61.75	62.4	67.5
CHELAN LAKE BASIN							MEADOWS CABIN	1900	4/27/89	0	.0	.0	1.3
LYMAN LAKE PILLON	5900	5/01/89	---	61.75	62.4	67.5	NEW HOZOMEEN LAKE	2800	4/28/89	0	.0	.0	6.0
MINERS RIDGE PILLON	6200	5/01/89	---	45.55	--	--	RAINY PASS PILLON	4780	5/01/89	---	35.35	--	45.4
PARK CK RIDGE PILLON	4600	5/01/89	---	42.05	27.9	39.9	THUNDER BASIN	4200	4/27/89	54	22.8	19.0	22.3
RAINY PASS PILLON	4780	5/01/89	---	35.35	--	45.4	BAKER RIVER						
ENTIAT RIVER							DOCK BUTTE AM	3800	5/04/89	102	47.9	61.3	70.8
WENATCHEE RIVER							EAST PASS AM	5200	5/04/89	124	50.3	78.0	89.2
BERNE-MILL CREEK	3170	4/28/89	45	20.5	23.5	20.8	JASPER PASS AM	5400	5/04/89	140	67.2	81.8	93.0
BLEWETT PASS #2	4270	5/01/89	3	1.3	.0	8.7	MARTEN LAKE AM	3600	5/04/89	137	65.6	72.0	78.8
BLEWETT PASS#2PILLON	4270	5/01/89	---	2.15	.0	14.2	MT. BLUM AM	5800	5/04/89	120	57.5	65.3	72.3
CHIWAUKUM G.S.	2500	4/28/89	0	.0	.0	1.1	ROCKY CREEK AM	2100	5/04/89	14	5.3	23.6	20.7
LYMAN LAKE PILLON	5900	5/01/89	---	61.75	62.4	67.5	SCHREIBERS MOW AM	3400	5/04/89	86	41.6	45.9	59.7
MERRITT	2140	4/23/89	0	.0	.0	4.1	SF THUNDER CK AM	2200	5/04/89	0	.0	.0	1.3
STEVENS PASS PILLON	4070	5/01/89	---	34.15	39.8	41.3	MATSON LAKES AM	4500	5/04/89	100	48.3	58.8	70.7
STEVENS PASS SAND SO	3700	4/28/89	44	19.9	22.2	31.3	OLYMPIC PENINSULA						
COLOCKUM CREEK							CARROL PASS	3650	4/30/89	64	31.0	26.4	30.0
TROUGH #2 PILLON	5310	5/01/89	---	1.05	.0	5.6	COX VALLEY	4500	4/28/89	72	32.86	45.2	40.0
							DEER PARK	5200	4/27/89	16	7.0	17.6	21.1
							HURRICANE	4500	4/29/89	40	17.09	22.5	23.9

FUTURE OF THE WATER SUPPLY OUTLOOK REPORT

WATER SUPPLY OUTLOOK:

A recent evaluation of the Snow Survey and Water Supply Forecasting Program interviewed 200 users of the forecasts. We learned that:

- Users who got their information by accessing our computer were very satisfied;
- Users who depended on the monthly Water Supply Outlook Report needed the information much earlier in the month; and
- The reports contained more information than many users needed.

In summary, we are producing a report that is not doing the job for most users. And we are spending a lot of money on the report.

The state-wide WATER SUPPLY OUTLOOK REPORT will be discontinued. We are proposing three actions for the next water year to better meet your needs:

FIRST, the users' direct access of forecasts by computer will be improved. We will provide better instructions and self-training materials. Also, District Conservationists who have computers will be encouraged to access forecasts and distribute local reports to those users who do not have computer facilities.

SECOND, the SCS state office will prepare individual forecast reports for the major river basins in the state. They will be the same as the reports available on the computer. Users who request it will be on a mailing list to receive one or more of the reports. They will be printed and mailed within a day or two after the basin forecast is completed and available on the computer.

THIRD, for users who are interested in the forecasts for their historical value rather than for decision-making, an annual summary will be provided. A West-Wide Report will continue to be available, published jointly with the National Weather Service.

This summer and fall will be spent developing the details of these new procedures. You will be

informed prior to next water year's reports, and new mailing lists will be prepared.

Please call us or write if you have any questions.

The Following Organizations Cooperate With The Soil Conservation Service In Snow Survey Work

- Canada:** Ministry of the Environment, Water
Investigations Branch, Victoria, British Columbia
- States:** Washington State Department of Ecology
Washington State Department of Natural Resources
- Federal:** Department of the Army
Corps of Engineers
U.S. Department of Agriculture
Forest Service
U.S. Department of Commerce
NOAA, National Weather Service
U.S. Department of the Interior
Bonneville Power Administration
Bureau of Reclamation
Geological Survey
National Park Service
Bureau of Indian Affairs
- Local:** City of Tacoma
City of Seattle
Chelan County P.U.D.
Pacific Power and Light Company
Puget Sound Power and Light Company
Washington Water Power Company
Snohomish County P.U.D.
Colville Confederated Tribes
Spokane County
- Private:** Okanogan Irrigation District
Wenatchee Heights Irrigation District
Newman Lake Homeowners Association

Other organizations and individuals furnish valuable information for snow survey reports. Their cooperation is gratefully acknowledged.

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